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## WE CLAIM:

## 1. A compound according to the formula:

$$HO$$
 $OH$ 
 $OH$ 

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wherein

G is CHC<sub>1</sub>-C<sub>6</sub> alkyl, C=O, CHOH, CF<sub>2</sub>, C(OH)CF<sub>3</sub>, CHCF<sub>3</sub>, CH(OH)C<sub>1</sub>-C<sub>6</sub>alkyl, CH-OC<sub>1</sub>-C<sub>6</sub>alkyl, CH-O(CO)C<sub>1</sub>-C<sub>6</sub>alkyl, CHF, CHCN, CHC<sub>2</sub>-C<sub>4</sub>alkenyl, CHC<sub>2</sub>-C<sub>4</sub>alkynyl, CHbenzyl, difluoromethylene, O, S(O)n, wherein n is 0-2; including their enantiomers.

## 2. A compound according to the formula:

$$HO$$
 $OH$ 
 $OH$ 

20

wherein

wherein G is CHC<sub>1</sub>-C<sub>6</sub> alkyl, C=O, CHOH, CF<sub>2</sub>, C(OH)CF<sub>3</sub>, CHCF<sub>3</sub>, CH(OH)C<sub>1</sub>-C<sub>6</sub> alkyl, CH-OC<sub>1</sub>-C<sub>6</sub> alkyl, CH-O(CO)C<sub>1</sub>-C<sub>6</sub> alkyl, CHF, O, S(O)n, wherein n is 0-2;

25 2; including the enantiomers;

and the pharmaceutically acceptable salts thereof.

5 . A compound selected from the group comprising: 3. (2S, 3aS, 4R, 9bR)-4-(4-Hydroxy-phenyl)-2-methyl-1,2,3,3a,4,9ba) hexahydro-cyclopenta[c]chromen-8-ol; (2R, 3aR, 4S, 9bS)-4-(4-Hydroxy-phenyl)-2-methyl-1,2,3,3a,4,9b**b**) 10 hexahydro-cyclopenta[c]chromen-8-ol; c) (2R, 3aR, 4S, 9bS)- 2-tert-Butyl-4-(4-hydroxy-phenyl)-1,2,3,3a,4,9bhexahydro-cyclopenta[c]chromen-8-ol; (2S, 3aS, 4R, 9bR)-2-tert-Butyl-4-(4-hydroxy-phenyl)-1,2,3,3a,4,9bd) hexahydro-cyclopenta[c]chromen-8-ol; 15 e) (3aS, 4S, 9bS)-4-(4-Hydroxy-phenyl)-1,3a,4,9b-tetrahydro-3H-2,5dioxa-cyclopenta[a]naphthalen-8-ol; (3aR, 4R, 9bR)-4-(4-Hydroxy-phenyl)-1,3a,4,9b-tetrahydro-3H-2,5f) dioxa-cyclopenta[a]naphthalen-8-ol; (3aR, 4S, 9bS)-4-(4-Hydroxy-phenyl)-1,3a,4,9b-tetrahydro-3H-5-20 oxa-2-thia-cyclopenta[a]naphthalen-8-ol; (3aS, 4R, 9bR)-4-(4-Hydroxy-phenyl)-1,3a,4,9b-tetrahydro-3H-5oxa-2-thia-cyclopenta[a]naphthalen-8-ol; (2S, 3aR, 4S, 9bS)-4-(4-Hydroxy-phenyl)-2-oxo-1,2,3,3a,4,9bi) hexahydro-5-oxa-2λ<sup>4</sup>-thia-cyclopenta[a]naphthalen-8-ol: 25 (2R, 3aS, 4R, 9bR)-4-(4-Hydroxy-phenyl)-2-oxo-1,2,3,3a,4,9bj) hexahydro-5-oxa-2λ<sup>4</sup>-thia-cyclopenta[a]naphthalen-8-ol; (3aR, 4S, 9bS)-4-(4-Hydroxy-phenyl)-2,2-dioxo-1,2,3,3a,4,9bk)  $hexahydro-5-oxa-2\lambda^6-thia-cyclopenta \cite{Allower} and the lem-8-ol;$ (3aS, 4R, 9bR)-4-(4-Hydroxy-phenyl)-2,2-dioxo-1,2,3,3a,4,9b-1) hexahydro-5-oxa-2\(\lambda^6\)-thia-cyclopenta[a]naphthalen-8-ol; 30 (3aR, 4S, 9bS)-8-Hydroxy-4-(4-hydroxy-phenyl)-1,3a,4,9bm) tetrahydro-3H-cyclopenta[c]chromen-2-one; (3aS, 4R, 9bR)-8-Hydroxy-4-(4-hydroxy-phenyl)-1,3a,4,9bn) tetrahydro-3H-cyclopenta[c]chromen-2-one; 35 (2S, 3aR, 4S, 9bS)-4-(4-Hydroxy-phenyl)-1,2,3,3a,4,9b-hexahydrocyclopenta[c]chromene-2,8-diol:

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- p) (2R, 3aS, 4R, 9bR)-4-(4-Hydroxy-phenyl)-1,2,3,3a,4,9b-hexahydro-cyclopenta[c]chromene-2,8-diol;
- q) (3aR, 4S, 9bS)-2,2-Difluoro-4-(4-hydroxy-phenyl)-1,2,3,3a,4,9b-hexahydro-cyclopenta[c]chromen-8-ol;
- r) (3aS, 4R, 9bR)-2,2-Difluoro-4-(4-hydroxy-phenyl)-1,2,3,3a,4,9b-hexahydro-cyclopenta[c]chromen-8-ol;
- s) (2S, 3aR, 4S, 9bS)-4-(4-Hydroxy-phenyl)-2-trifluoromethyl-1,2,3,3a,4,9b-hexahydro-cyclopenta[c]chromen-8-ol;
- t) (2R, 3aS, 4R, 9bR)-4-(4-Hydroxy-phenyl)-2-trifluoromethyl-1,2,3,3a,4,9b-hexahydro-cyclopenta[c]chromen-8-ol;
- u) (2R, 3aS, 4S, 9bS)-4-(4-Hydroxy-phenyl)-2-trifluoromethyl-1,2,3,3a,4,9b-hexahydro-cyclopenta[c]chromen-8-ol;
- v) (2S, 3aS, 4R, 9bR)-4-(4-Hydroxy-phenyl)-2-trifluoromethyl-1,2,3,3a,4,9b-hexahydro-cyclopenta[c]chromen-8-ol;
- w) (2R, 3aR, 4S, 9bS)-2-Ethyl-4-(4-hydroxy-phenyl)-1,2,3,3a,4,9bR-hexahydro-cyclopenta[c]chromene-2,8-diol;
- x) (2S, 3aS, 4R, 9bR)-2-Ethyl-4-(4-hydroxy-phenyl)-1,2,3,3a,4,9bR-hexahydro-cyclopenta[c]chromene-2,8-diol;
- y) (2S, 3aS, 4R, 9bR)-2-Ethyl-4-(4-hydroxy-phenyl)-1,2,3,3a,4,9b-hexahydro-cyclopenta[c]chromen-8-ol;
- z) (2S, 3aR, 4S, 9bS)-2-Ethyl-4-(4-hydroxy-phenyl)-1,2,3,3a,4,9b-hexahydro-cyclopenta[c]chromen-8-ol;
- aa) (2S, 3aR, 4S, 9bS)-2-Ethyl-4-(4-hydroxy-phenyl)-1,2,3,3a,4,9b-hexahydro-cyclopenta[c]chromen-8-ol;
- bb) (2R, 3aR, 4S, 9bS)-2-Ethyl-4-(4-hydroxy-phenyl)-1,2,3,3a,4,9b-hexahydro-cyclopenta[c]chromen-8-ol;
- cc) (2S, 3aS, 4R, 9bR)-4-(4-Hydroxy-phenyl)-2-methoxy-1,2,3,3a,4,9b-hexahydro-cyclopenta[c]chromen-8-ol;
- dd) (2R, 3aR, 4S, 9bS)-4-(4-Hydroxy-phenyl)-2-methoxy-1,2,3,3a,4,9b-hexahydro-cyclopenta[c]chromen-8-ol;
- ee) (2S, 3aS, 4R, 9bR)-Acetic acid 8-hydroxy-4-(4-hydroxy-phenyl)-1,2,3,3a,4,9b-hexahydro-cyclopenta[c]chromen-2-yl ester;

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5	ff) (2R, 3aR, 4S, 9bS)-Acetic acid 8-hydroxy-4-(4-hydroxy-phenyl)-
	1,2,3,3a,4,9b-hexahydro-cyclopenta[c]chromen-2-yl ester;
	gg) $(2R, 3aS, 4R, 9bR)$ -2-Fluoro-4- $(4$ -hydroxy-phenyl)-1,2,3,3a,4,9b-
	hexahydro-cyclopenta[c]chromen-8-ol;
	hh) (2S, 3aR, 4S, 9bS)-2-Fluoro-4-(4-hydroxy-phenyl)-1,2,3,3a,4,9b-
	hexahydro-cyclopenta[c]chromen-8-ol;
	ii) (2S, 3aS, 4R, 9bR)- 2-Fluoro-4-(4-hydroxy-phenyl)-1,2,3,3a,4,9b-
	hexahydro-cyclopenta[c]chromen-8-ol;
	jj) (2R, 3aR, 4S, 9bS)-2-Fluoro-4-(4-hydroxy-phenyl)-1,2,3,3a,4,9b-
	hexahydro-cyclopenta[c]chromen-8-ol;
15	kk) (2R, 3aR, 4S, 9bS)- and (2S, 3aS, 4R, 9bR)-8-Hydroxy-4-(4-hydroxy-
	phenyl)- 1,2,3,3a,4,9b-hexahydro-cyclopenta[c]chromene-2-carbonitrile;
	ll) $(2S, 3aR, 4S, 9bS)$ - and $(2R, 3aS, 4R, 9bR)$ -8-Hydroxy-4- $(4$ -hydroxy-
	phenyl)-1,2,3,3a,4,9b-hexahydro-cyclopenta[c]chromene-2-carbonitrile;
	mm) (3aR, 4S, 9bS)- and (3aS, 4R, 9bR)-4-(4-Hydroxy-phenyl)-2-
20	methylene-1,2,3,3a,4,9b-hexahydro-cyclopenta[c]chromen-8-ol;
	nn) $(3aR, 4S, 9bS)$ - and $(3aS, 4R, 9bR)$ -2-Difluoromethylene-4- $(4$ -
	hydroxy-phenyl)-1,2,3,3a,4,9b-hexahydro-cyclopenta[c]chromen-8-ol;
	oo) (3aR, 4S, 9bS)- and (3aS, 4R, 9bR)-2-Ethynyl-4-(4-hydroxy-phenyl)-
	1,2,3,3a,4,9b-hexahydro-cyclopenta[c]chromen-8-ol;
25	pp) 2-Butyl-4-(4-hydroxy-phenyl)-1,2,3,3a,4,9b-hexahydro-
	cyclopenta[c]chromen-8-ol;
	qq) 4-(4-Hydroxy-phenyl)-2-propyl-1,2,3,3a,4,9b-hexahydro-
	cyclopenta[c]chromen-8-ol;
	rr) 2-Ethyl-4-(4-hydroxy-phenyl)-1,2,3,3a,4,9b-hexahydro-
30	cyclopenta[c]chromen-8-ol;
	ss) 2-Benzyl-4-(4-hydroxy-phenyl)-1,2,3,3a,4,9b-hexahydro-
	cyclopenta[c]chromen-8-ol;
	including the enantiomers thereof.

5 4. A compound according to claim 1 wherein the compound is of the formula:

and the enantiomers thereof.

10 5. A compound according to claim 1 wherein the compound is of the formula:

and the enantiomers thereof.

15 6. A compound according to claim 1 wherein the compound is of the formula:

5 7. A compound according to claim 1 wherein the compound is of the formula:

and the enantiomers thereof.

10 8. A compound according to claim 1 wherein the compound is of the formula:

and the enantiomers thereof.

9. A compound according to claim 1 wherein the compound is of the formula:

5 10. A compound according to claim 1 wherein the compound is of the formula:

and the enantiomers thereof.

10 11. A compound according to claim 1 wherein the compound is of the formula:

and the enantiomers thereof.

15 12. A compound according to claim 1 wherein the compound is of the formula:

5 13. A compound according to claim 1 wherein the compound is of the formula:

and the enantiomers thereof.

10 14. A compound according to claim 1 wherein the compound is of the formula:

and the enantiomers thereof.

15. A compound according to claim 1 wherein the compound is of the formula:

5 16. A compound according to claim 1 wherein the compound is of the formula:

and the enantiomers thereof.

10 17. A compound according to claim 1 wherein the compound is of the formula:

and the enantiomers thereof.

15 18. A compound according to claim 1 wherein the compound is of the formula:

5 19. A compound according to claim 1 wherein the compound is of the formula:

and the enantiomers thereof.

10 20. A compound according to claim 1 wherein the compound is of the formula:

and the enantiomers thereof.

15 21. A compound according to claim 1 wherein the compound is of the formula:

5 22. A compound according to claim 1 wherein the compound is of the formula:

and the enantiomers thereof.

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23. A compound according to claim 1 wherein the compound is of the formula:

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and the enantiomers thereof.

24. A compound according to claim 1 wherein the compound is of the 20 formula:

5 25. A compound according to claim 1 wherein the compound is of the formula:

and the enantiomers thereof.

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26. A compound according to claim 1 wherein the compound is of the formula:

and the enantiomers thereof.

27. A compound according to claim 1 wherein the compound is of the formula:

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5 28. A compound according to claim 1 wherein the compound is of the formula:

and the enantiomers thereof.

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29. A compound according to claim 1 wherein the compound is of the formula:

and the enantiomers thereof.

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30. A compound according to claim 1 wherein the compound is of the formula:

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31. A compound according of the formula II:

wherein':

G and G' are each CH<sub>2</sub>, C=O, C=CH<sub>2</sub>, CHC<sub>1</sub>-C<sub>6</sub>alkyl or CF<sub>2</sub>; with the proviso that when G' is other than CH<sub>2</sub>, G must be CH<sub>2</sub> and that when G is other than CH<sub>2</sub>, G' must be CH<sub>2</sub>;

including the enantiomers and the pharmaceutically acceptable salts thereof.

32. A compound selected from the group comprising:

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- a. (6S, 6aR, 10aS)-2-Hydroxy-6-(4-hydroxy-phenyl)-6,6a,7,8,10,10a-hexahydrobenzo[c]chromen-9-one;
- b. (6aR, 6S, 10aS)-6-(4-Hydroxy-phenyl)-9-methylene-6a,7,8,9,10,10a-hexahydro-6H-benzo[c]chromen-2-ol;

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- c. (6aR, 6S, 9S, 10aS)-6-(4-Hydroxy-phenyl)-9-methyl-6a,7,8,9,10,10a-hexahydro-6H-benzo[c]chromen-2-ol;
- d. (6aR, 6S, 9R, 10aS)-6-(4-Hydroxy-phenyl)-9-methyl-6a,7,8,9,10,10a-hexahydro-6H-benzo[c]chromen-2-ol;
- e. (6aR, 6S, 10aS)-9,9-Difluoro-6-(4-hydroxy-phenyl)-6a,7,8,9,10,10a-hexahydro-6H-benzo[c]chromen-2-ol;

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f. (6aR, 6S, 10aS)-2-Hydroxy-6-(4-hydroxy-phenyl)-6a,9,10,10a-tetrahydro-6H,7H-benzo[c]chromen-8-one;

including their enantiomers.

5 33. A compound according to claim 31 wherein the compound is of the formula:

and the enantiomers thereof.

10 34. A compound according to claim 31 wherein the compound is of the formula:

and the enantiomers thereof.

15 35. A compound according to claim 31 wherein the compound is of the formula:

5 36. A compound according to claim 31 wherein the compound is of the formula:

and the enantiomers thereof.

10 37. A compound according to claim 31 wherein the compound is of the formula:

- 38. A pharmaceutical composition comprising a compound of according to any of Claims 1 through 37 and a pharmaceutically acceptable carrier.
- 39. A method of selectively binding to estrogen receptor beta in a patient in need thereof comprising administering to said patient a therapeutically effective amount
   20 of a compound of any of Claims 1 through 38.
  - 40. A method of treating a patient afflicted with an estrogen receptor beta mediated disease condition comprising administering to said patient a therapeutically effective amount of a compound of any of Claims 1 through 38.

- 5 41. A method of treating prostate cancer in a patient in need thereof comprising administering to said patient a therapeutically effective amount of a compound of any of Claims 1 through 38.
- 42. A method of treating benign prostatic hyperplasa (BPH) in a patient in need thereof comprising administering to said patient a therapeutically effective amount of a compound of any of Claims 1 through 38.
  - 43. A method according to any of Claims 39-42 wherein said patient is a human.
  - 44. Use of a compound according to any one of Claims 1 to 38 in the manufacture of a medicament for the treatment of prostate cancer, benign prostatic hyperplasia, or an estrogen receptor beta mediated disease condition.

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